

Open Competitive Bid (OCB)

For

Procurement of High End servers and other items
for Data Centre and DR site

For

Commercial Taxes Department

Proprietary & Confidential

**Andhra Pradesh Technology Services Limited,
Boorgula Ramakrishna Rao Bhavan, B-block, 4th floor,
Tank bund road,
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News paper advertisement.

apts

**Tender call notice for procurement of High End servers and other items for
Data Centre and DR site for CT Dept.**

Time schedule of various tender related events:

Bid calling date & sale of bid documents	06/09/2010.
Pre-bid conference date/time	15/09/2010, 11:30 AM
Last date/time for clarification	15/ 09/2010, 05:00 PM
Last date/time for sale of bid documents	27/09/2010, 02:00 PM
Bid closing date/time	27/09/2010 03:00 PM
Bid opening date/time	27/09/2010, 03:30 PM
Bid Document Fee	Rs. 10,000/-
APTS Contact person	Manager(IIP &NW)
Reference No.	APTS/IIP/CT-DC/299/2010

If your firm is interested in participation, please ask the contact person for details or visit our Web site at <http://www.apts.gov.in>. The bid document fee is payable only when you indent full copy of the bid document and for participation. The quantities mentioned above are only indicative and may vary depending on actual requirement.

Managing Director

**Andhra Pradesh Technology Services Limited (APTS),
Boorgula Rama Krishna Rao Bhavan, B-block, 4th floor, Tank Bund Road,
Hyderabad, AP 500 063, India
Phones:(40) 23224289; (40) 23223865; Fax: (40) 23227458**

Section A

Tender Call Notice

**Andhra Pradesh Technology Services Limited (APTS),
Boorgula Rama Krishna Rao Bhavan, B- Block, 4th floor,
Tank Bund Road, Hyderabad, AP 500 063, India.
Phones : (40) 23224289; (40) 23223865; Fax: (40) 23227458.**

**Procurement of High End servers and other items for Data Centre and DR
site for CT Dept, Hyderabad, AP**

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APTS Contact person	Manager(IIP & NW)
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A. The goods, service or material required:

A.1.1 The Commercial Taxes Department, Government of Andhra Pradesh switched over to Value Added Tax system from APGST with effect from 01-04-2005. For effective implementation and management of VAT System, it has got developed VATIS software application and the same is in continuous operations with effect from 01-04-2005.

The core application for management of VAT called VATIS was developed under Sun Java environment (J2EE Architecture) with Oracle as Database under Sun Solaris platform in Centralized Architecture. The Data Centre at CCT office, Hyderabad is connected to more than 250 locations spread across State. Most of these locations generally work in 10.00 AM to 8.00 PM environment. But 18 Check Posts at AP State Borders work round the clock. Hence to ensure availability of VATIS System round the clock, it is necessary that Data Centre System works round the clock.

VATIS application captures Registration data at the time of Registration of Dealers and it needs to maintain registration data up to 4 years beyond the Registration life. System also captures Business Returns filed by more than 1.5 lakh dealers every month. This data also has to be kept at least for 4 years. System also maintains Dealer account on continuous basis. Hence Data generated by system is highly valuable and needs to be retained for 4 years for audit purpose.

The prevalent Business process puts heavy load on the system between 10th to 20th of every month, as the last date for filing Business Return is 20th of every month. If there is delay in filing Return by the dealer, interest is levied on the dealer for the delayed

period. Hence system availability is very crucial between these two dates every month. At Check Posts, system captures data of every Taxable Goods Carrying Vehicle in real time. Hence system availability round the clock is very crucial for effective operation of check posts.

Continuity of Business process requires that Down Time of System must be close to zero. However, Maximum allowable down time, at a stretch, which CTD is looking at, should not be more than 12 hours and not more than 24 hours in total over one month period.

In brief, CTD is looking for Procurement of High end servers and other items Central Data Centre and DR site. For this purpose this RFP is issued by APTS on behalf of CT Dept.

A.1.2 Scope of Work:

Service provider will be responsible for Supply of required Hardware and Software, Installation, Integration of the new High end servers and up-gradation of central Data Centre and Commissioning of entire setup. The brief deliverables of the project is listed below. Bidder needs to consider all expenses relating to the following tasks while bidding. Department will not be entertaining any additional expenses sought by the successful bidder during implementation.

- a) Supply the hardware, software, and associated components
- b) Install the hardware in the existing datacenter.
- c) Install the Operating Systems and apply necessary patches before installing any application.
- d) Install the RDBMS
- e) Assist application software application service provider in installing application software. Database installation should be carried out by the bidder independently.
- f) Configure backup system for the newly installed hardware as per the mutually agreed and required policies.
- g) Test the application and data before releasing to the end-users.
- h) Configure data replication with the DR site.
- i) Configuring necessary policies, rules, changes required in the associated hardware within the datacenter such as firewall, switches, routers, and load balancer will be under the scope of the bidder. They may take help from the existing FM Service provider.
- j) Documentation and training to the department / department designated team on the newly implemented solution.
- k) Acceptance Testing and Sign-off.

Existing Data Centre & DR Site details

The existing data centre is located in the office of CCT and the D.R. site is in the Secretariat, Hyderabad.

The present status:

VATIS application and Database is running on SUN V880 Server clusters. This is linked to 250 offices and check posts spread across the state. These servers are connected with SUN 6140 SAN array and L100 tape library. The entire infrastructure is connected on the SAN fabric using Brocade silk form 3800 SAN switches.

There are also various other application hosted on independent servers. The VATIS server is capturing about 1.8 Lakh returns from dealers on a monthly basis, besides real time data from the check post.

A.1.3 The configuration of existing Application Sever, Data base Servers and Storage System at Central Data Centre:

Database Servers: 2

- 4* SUN UltraSPARC III 900MHz Processors (Max 8 - 4 dual processors)
- L1 64-KB data and 32-KB instruction
- L2 8MB External
- PCI Slots
- 10GB RAM(Max 64GB)
- 6*73GB FC-AL (Fiber Channel Arbitrary Loop) Disks (Max 1.3TB)

Applications Servers: 2

- 2*SUN UltraSPARC III 900MHz Processors (Max 8 - 4 dual processors)
- L1 64-KB data and 32-KB instruction
- L2 8MB External
- PCI Slots
- 8GB RAM(Max 64GB)
- 6*73GB FC-AL (Fiber Channel Arbitrary Loop) Disks (Max 1.3TB)

Storage:

Tape Library: SUN L100

Drives: 4

Drive Type: LTO 1

Interface : HVD

Tape Media Bays: 8*12=96

No. of Tapes can be used at a time: 99

Capacity of tape: 100GB

STORAGE SYSTEM (Qty. 1 No.)

- Sun Storage 6140
- 1 TB useable with RAID5 Capacity using FC drives scalable to minimum of 112 number of drives with total storage capacity up to 56 TB.
- With necessary Cables and HBAs

Software details:

Database: Oracle 10g

OS: Sun Solaris

A.1.4 The configuration of existing Application Sever, Data base Servers and Storage System at DR site:

a) Servers (Qty. 2 Nos.)

- SUN Fire V890 with 4 Processors (Max 8 processors)
- L1 128-KB data and L2+L3 – 16 MB
- LTO 2 drive
- 64 GB RAM
- 4*146 GB FC-AL Disks

b). STORAGE SYSTEM (Qty. 1 No.)

- Sun Storage 6140
- 1 TB useable with RAID5 Capacity using FC drives scalable to minimum of 112 number of drives with total storage capacity up to 56 TB.
- With necessary Cables and HBAs

c) Backup (Qty. 1 No.)

- Sun Storage SL500
- Tape library with LTO3 configuration should scale to a maximum of 4 drives within the library
- With necessary software to do SAN based backup and online backup for applications and databases

d) Software

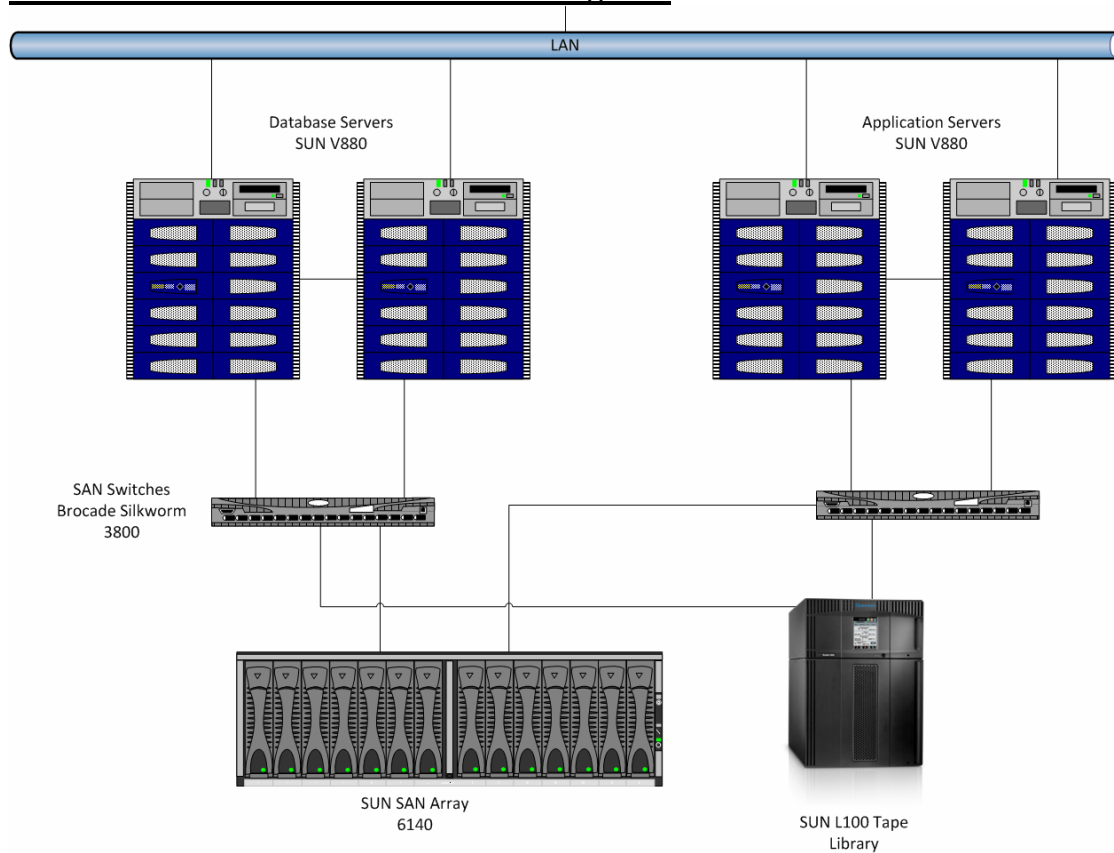
- Software - RDBMS for DR site Oracle 10 G [Oracle Database Enterprise Edition (Processor Metric) - 6 Processor License] with media
- Software - For backup – EBS software
- Software - Application server – Oracle [Oracle Internet Application Server Enterprise Edition (Processor Metric) - 3 Processor License.] with media
- Software - OS for both servers Solaris 10 (2 nos.)

A.1.5 Challenges in the present environment :

- a) CPU and Memory utilisation has reached 90% and above during peak loads
- b) Users are experiencing slowdown in application response and many a times it fails to respond. This happens during the month-ends when there is heavy load due to entry of returns.
- c) The existing server SUN V880 is already end-of-support (EOS) announced product.
- d) Individual application servers also occupy larger foot print and consume large amount of Power
- e) The costs f upgrades are nearly equal to cost of replacement,
- f) Host bus adapters connecting the servers with SAN fabric are running at 1 Gbps throughput. Upgrading this will not be possible because 4 Gbps host bus adapters PCI-Express slot, V880 servers have only PCI slots.

- g) SAN switch is capable of handling the load of 2 Gbps, whereas the Server is connected on 1 Gbps and SAN array will handle 4 Gbps. There is large mismatch of IO bandwidth.

A.1.6 Current Architecture Schematic Diagram:



A.2. Schedule of Required Quantities:

Schedule-I	Qty
D.1.1. SER-S1 - Database Servers	3 Nos (2 Nos for DC & 1 No. for DR)
D.1.2. SER-S2 - Application Servers	3 Nos. (2 Nos for DC & 1 No. for DR)
D.1.3. TL01 - Tape Library	1 No
D.1.4. BS01 - Backup Solution	1 No
D.1.5. SAN01 – Capacity Expansion for existing SAN	1 No
D.1.6. FC01 - SAN Switches	2 Nos.
D.1.7. NW01 – IPS appliance	1 No.
D.1.8. NW02 – Firewall	2 Nos.
D.1.9 ORA1 - Oracle 11 G version Database Enterprise Edition / MS SQL of Processor Licenses	
D.1.10 ORA2 - Oracle 11 G version Application Enterprise Edition Processor Licenses	
D.1.11 ORA3 - Oracle 11 G version RAC Enterprise Edition Processor Licenses	

Note:

Oracle / MS SQL Licenses should be supplied based on the hardware platform offered by the bidder. For Example,

Existing Oracle License Details:

Data Center:

1. Oracle Database Enterprise Edition 4 CPU License (presently on ATS)
2. Oracle Internet Application Server Enterprise Edition (Processor Metric) 2 CPU License (presently on ATS)
3. Oracle RAC Enterprise Edition 4 CPU License (presently on ATS)

Disaster Recovery Center:

1. Oracle Database Enterprise Edition 6 CPU License (presently on ATS)
2. Oracle Internet Application Server Enterprise Edition (Processor Metric) 3 CPU License (presently on ATS)

A.3. Scope of incidental services:

Furnish a detailed operation and maintenance manual. Provide a comprehensive document on handling incidents on the offered solution during the warranty period on a 24x7 basis.

A.4. Warranty Period:

Hardware: Three years from the successful installation and commissioning of Complete System.

OS and RDBMS: One year

A.4. Delivery and Installation Period:

Bidder shall deliver and install complete solution within 8 weeks from the date of signing of contract.

Section B

B.1 Pre-Qualification criteria:

1. The bidder should be a manufacturer / authorized representative of a manufacturer and should be in business of manufacture, and or supply and maintenance of the offered items for a minimum period of Three years in India as on bid calling date.
2. The bidder should have at least one service centre in Andhra Pradesh with at least Five Service Support personnel as on bid calling date.
3. The bidder should have minimum annual turnover for the items/product mentioned (irrespective of brand/model) and for the brand offered, during any two of the Financial years in 2007-08, 2008-09 and 2009-10 as follows:

Item name	Financial Year	Total Sales irrespective of brand/model (Nos.)		Total Sales Brand offered sales (Nos.)	
		Total Sales(nos)	Total Amount Rs. Lakhs	Total Sales(nos)	Total Amount Rs.Lakhs
a) Servers – RISC/EPIC	2007-08	8	450.00	4	225.00
	2008-09	8	450.00	4	225.00
	2009-10	8	450.00	4	225.00
b) SAN Storage/ Tape Library	2007-08	2	22.0	1	11.00
	2008-09	2	22.0	1	11.00
	2009-10	2	22.0	1	11.00

4. The bidder should furnish the information on major past supplies under the relevant product/services and satisfactory performance for any two of the Financial years 2007-08, 2008-09 and 2009-10.

Note: Relevant documents in support of above should be furnished

Section C

C1. Statement of important limits/values related to bid

SNo	Item	Description
1	EMD	Rs. 10.00 Lakhs
2	Bid Validity Period	90 days from the date of opening of bid
3	EMD validity Period	45 days beyond bid validity period)
4	Maintenance Period	3 Years - during Warranty period only
5	Variation in quantities	+/- 25%
6	Period for furnishing performance security	Within 7 days from data of receipt of notification of award
7	Performance security value	10% of estimated contract value
8	Performance security validity period	60 days beyond Warranty period
9	Period for signing contract	Within 10 days from date of receipt of notification of award
10	Warranty period	Hardware: 36 months from the date of successful installation of complete system at users' site. Software (OS & RDBMS) : 12 months from the date of successful installation of complete system at users' site
11	AMC & ATS	<ul style="list-style-type: none"> a. The OS supplied under this contract shall be under annual support for the 2nd year to 5th Year with all upgrades and updates. b. The RDBMS supplied under this contract shall be under Annual Technical Support for the 2nd year to 5th Year with all upgrades and updates.
12	Payment terms	Cumulative payment
12.a	On delivery & successful installation of entire system including Migration of existing application software (VATIS) & data migration at user's site	90% of Contract value
12.b	On Acceptance Test	10% of Contract value
12.c	AMC & ATS	Will be paid on quarterly basis.
13	Penalty for late installation	0.5% of contract value of all goods per week or part there of
14	Maximum Penalty for late installation	10% of contract value of all goods
15	Penalty for delay in maintaining or replacement of parts during Warranty period	<ul style="list-style-type: none"> 1. Cumulative Down time up to 48 hours in a Calendar Month – Nil 2. Cumulative Down time of More than 48 Hours in a Calendar Month – 0.5% of Contract Value for every 12 hours of down time or part there of
16	Options for the required equipment	If the bidder wants to give option, he may submit it as separate bid along with separate EMD. This will be treated as separate bid for evaluation.

Section D

D - Technical specification:

Proposed Technical Solution and Specification:

Schedule I:

D.1.1. SER - S1 - Database Servers

Two servers running in Cluster at Data centre and One Standalone Server at DR Site. Vertical scaling is considered for database servers.

1. Make _____
2. Model _____
3. **Processor: SUN SE M 5000 server** or its Equivalent with RISC/EPIC/x64 with 4 No.s of 64-bit architecture processor modules/sockets should be proposed. Server proposed should be upgradeable to 8 processor sockets. The processor sockets proposed should be of the highest clock speed on the model proposed. All the necessary licenses required to activate the processor modules/sockets proposed should be included. **The bidder proposes an equivalent configuration has to submit the support documents showing the TPC-H and SPECfp_rate bench marks. Bidder is responsible to prove that the quoted configuration is equivalent to the model requested.**
4. **Memory:** Minimum 4 GB RAM per processor core should be proposed. Server should be scalable to 512 GB. ECC protected. Should support Chip Kill and Memory Mirror features or Equivalent.
5. **Cache:** Largest Cache for the Model of Processor needs to be offered.
6. Benchmark certificates or Equivalent bench mark certificate need to be submitted.
7. **Internal System Disks:** Minimum 4 x 300GB hot swap SAS or FCAL drives. Disks should be mirrored
8. **Removable Media:** DVD +/- RW
9. **I/O:**
 - Server should have at least 4 PCI-E and 1 PCI-X slot for backward compatibility.
 - Internal DAT/DLT Drive option should be available
 - 2 No.s of dual port 4 Gbps or higher FC HBAs should be proposed
 - 2 No.s of Quad port PCI-E Gigabit Ethernet port should be proposed
 - At least 4 more PCI-E slots should be available after populating the above cards.
10. **Power & Cooling:** Redundant, hot swappable, power/cooling units. Each power supply should have its independent power cord.
11. **Server RAS Features:**
 - The system should be able to detect and bypass a failed component and automatically recover upon reboot.
 - Redundant Power with independent power cords System Control Card to Manage the system
 - Error Correction and parity checking, Memory Chip Kill and Memory Mirror features

- Should support virtualization It should be possible to dynamically reconfigure resources between partitions without the need of a reboot
12. **Operating System:** OEM Unix/Windows Enterprise Edition with Latest updates.
 13. **Cluster Software:** Required cluster license for operating system and cluster agent for Oracle / MS SQL Database should be provided.
 14. **Undertaking:** The bidder should submit an undertaking from the Manufacturer that the maintenance support will be available for the quoted make & model servers for a minimum period of 5 years from the date of installation & commissioning.
 15. **Technical Data Sheet: Bidders requested to submit the Technical Data sheet for proposed model** with complete required details.

D.1.2. SER - S2 - Application Server

Two servers running in Cluster at Data centre and One Standalone Server at DR Center. Horizontal scaling is considered for application layer.

1. Make _____
2. Model _____
3. **Processor: SUN SE M 4000 server** or its Equivalent with RISC/EPIC/x64 with 2 No.s of 64-bit architecture processor modules/sockets should be proposed. Server proposed should be upgradeable to 4 processor sockets. The processor sockets proposed should be of the highest clock speed on the model proposed. All the necessary licenses required to activate the processor modules/sockets proposed should be included. **The bidder proposes an equivalent configuration has to submit the support documents showing the TPC-H and SPECfp_rate bench marks. Bidder is responsible to prove that the quoted configuration is equivalent to the model requested.**
4. **Memory:** Minimum 4 GB RAM per processor core should be proposed. Server should be scalable to 256GB. ECC protected. Should support Chip Kill and Memory Mirror features or Equivalent
5. **Cache:** Largest Cache for the Model of Processor needs to be offered.
6. Benchmark certificates or Equivalent bench mark certificate need to be submitted.
7. **Internal System Disks:** Minimum 3 x 300GB hot swap internal SAS or FC-AL drives. Disks should be mirrored
8. **Removable Media:** DVD +/- RW
9. **I/O:**
 - Server should have at least 4 PCI-E and 1 PCI-X slot for backward compatibility.
 - Internal DAT/DLT drive option should be available
 - 2 No.s of dual port 4 Gbps or higher FC HBAs should be proposed
 - 2 No.s of Quad port PCI-E Gigabit Ethernet port should be proposed
 - At least 4 more PCI-E slots should be available after populating the above cards.
10. **Power & Cooling:** Redundant, hot swappable, power/cooling units. Each power supply should have its independent power cord.

11. Server RAS Features:

- The system should be able to detect and bypass a failed component and automatically recover upon reboot. CPU or core off lining should be possible
- Redundant Power with independent power cords System Control Card to Manage the system
- Error Correction and parity checking, Memory Chip Kill and Memory Mirror features or Equivalent
- Should support virtualization.
- It should be possible to dynamically reconfigure resources between partitions without the need of a reboot

12. Operating System: OEM Unix/Windows Enterprise Edition with Latest updates.

13. Undertaking :The bidder should submit an undertaking from the Manufacturer that the maintenance support will be available for the quoted make & model servers for a minimum period of 5 years from the date of installation & commissioning..

14. Technical Data Sheet: Bidders requested to submit the Technical Data sheet for proposed model with complete required details.

D.1.3 TL01- Tape Library (1 No)

1. Make _____
2. Model _____
3. **Drives:** 2 numbers of LTO4 FC Tape drives with minimum 50 cartridge slots.
4. **Cartridges:** 20 numbers of LTO4 data cartridges and 5 numbers of LTO cleaning cartridges.
5. **Scalability:** Tape Library should have modularly scalable design via expansion units for Tape Drives and Cartridge Slots. IT should be possible to scale the Tape Library to 18 drives and 350 slots in future.
6. **RAS:** Power supplies, fans, drives, library and interface controllers must be redundant.
7. **Others:**
 - Web-based user interface and remote management capabilities.
 - Tape Library should support logical partitioning as an option- with each logical library having its own separate drives, storage slots and control path(s).
 - Tape Library should support LTO 3 and LTO 4 Drives and should also support the next generation of LTO within the same Library.
8. **Technical Data Sheet:** Bidders requested to submit the Technical Data sheet for proposed model with complete required details.

D.1.4 BS01 - Backup Solution (1 No)

- a) Make _____
- b) Model _____
- c) The backup solution shall be a comprehensive online backup/restore solution for the entire IT setup. It must support heterogeneous environments. The backup server should be Linux based.
- d) The solution should support media server on heterogeneous operating systems like Windows, Linux and UNIX.
- e) The solution should support LAN based backup as well as LAN-free Backup and NDMP backup in future, whenever required. The solution shall provide online automated backup facility for popular databases like Oracle, MS SQL on windows, Linux, and UNIX platforms as well as common open source databases like MySQL, PostgreSQL.
- f) It should provide Full, differential, and cumulative incremental backup while data is online with protection down to the data file level.
- g) The solution should support point-and-click complete recovery and point-in-time recovery based on time, log sequence number. It should be able to restore read-only files when needed as well as flexible restoration of complete databases, individual table spaces or individual data files should be available.
- h) The solution must be easy-to-configure, easy-to-use with graphical interfaces. Ideally, the graphical interface on different type of clients/platforms should be the same.
- i) The backup software quoted should support Archiving features.
- j) Client licenses should be common for usage across heterogeneous computing environment. The bidders are requested to offer CPU independent cross operating system client licensing to support windows/Linux/Unix operating systems.
- k) The solution should be scalable to handle disk virtualization in future. The solution should provide facility of disk virtualization that gives hard disks on the server, a body of tape library with drives and slots configuration, for backup creation, prior to backup on the secondary tape media. This feature should be supported on Both LAN and SAN, and it should be an integral part of base backup solution.
- l) The solution must have an in-built facility of taking backup of its own database, catalogs, indexes etc. in an automated scheduled manner. The solution must provide facility of fast restoration of the backup server with backed up databases, catalogs, indexes etc., in case of disaster, which compels rebuilding of the backup server.
- m) Software Must support ability to Scan Tapes to rebuild Catalogs and Indexes to perform Safe and reliable recovery in the case of Disasters.
- n) Necessary agents and options for Online Oracle / MS SQL Backup and Exchange Mailbox backup should be provided along with base software.
- o) **Technical Data Sheet:** Bidders requested to submit the Technical Data sheet for proposed model with complete required details.

D.1.5 SAN01- Capacity Expansion of SAN (1 No)

- a) Make _____
- b) Model _____
- c) CSM200 Expansion Tray for existing SUN 6140 Array with 16x300GB FC 15K hard disks
- d) Upgrade Domain licenses from 4 to 8.
- e) **Technical Data Sheet:** Bidders requested to submit the Technical Data sheet for proposed model with complete required details.

D.1.6 FC01- SAN Switches (2 Nos.)

- a) Make _____
- b) Model _____
- c) 24 Port SAN Switch with 8 Ports populated
- d) Each port should work at 4/2/1 Gbps
- e) 4 Gbps of dedicated bandwidth for each port and an aggregate platform bandwidth of 192 Gbps
- f) Should offer intelligent storage networking capabilities such as virtual SANs (VSANs), Port Channels, quality of service (QoS), and security
- g) **Technical Data Sheet:** Bidders requested to submit the Technical Data sheet for proposed model with complete required details.

D.1.7 NW01- IPS Appliance (1 No):

- a) Make _____
- b) Model _____
- c) Performance – Media Rich: - 600 Mbps or more
- d) Performance – Transactional: - 500 Mbps or more
- e) Monitoring Interfaces - 4 Gigabit Ethernet or more
- f) Should support automated hardware fail- open
- g) Should prevent malicious activity, including worms, directed attacks, distributed denial of service attacks, reconnaissance, and application abuse.
- h) Should have the richest set of response actions for flexible and precise response policies, such as dropping packets, terminating sessions, and rate limiting, or implementing access control and rate limiting on routers and other security appliances throughout the network.
- i) Should support and work on IPv4 and IPv6 networks.
- j) **Technical Data Sheet:** Bidders requested to submit the Technical Data sheet for proposed model with complete required details.
- k) **Technical Data Sheet:** Bidders requested to submit the Technical Data sheet for proposed model with complete required details.

D.1.8 NW02- Firewall (2 Nos):

- a) Make _____
- b) Model _____
- c) Firewall throughput (Mbps) - 400 Mbps or more
- d) Firewall connections - 250,000 or more
- e) Firewall connections/second - 10,000 or more
- f) Packets per second (64 byte) - 300,000 or more
- g) 3DES/AES VPN throughput - 200 Mbps or more
- h) Site-to-site and remote access VPN sessions - 700 or more
- i) SSL VPN user sessions - 700 or more
- j) Minimum Memory - 1 GB
- k) Ports - 8 Gigabit Ethernet
- l) Virtual Interfaces (VLANs) - 150 or more
- m) Should support the following features
 - a. Application layer firewall services
 - b. Layer 2 transparent fire walling
 - c. Security Contexts
 - d. GTP/GPRS inspection
 - e. Active-Active and Active-Standby configurations
 - f. VPN clustering and load balancing
 - g. Advanced endpoint assessment
 - h. **Technical Data Sheet:** Bidders requested to submit the Technical Data sheet for proposed model with complete required details.

D.1.9 SW1 - Oracle RDBMS/ MS-SQL Enterprise Edition of CPU Licenses

D.1.10 SW2 –Latest Oracle RDBMS Application Enterprise Edition CPU Licenses

D.1.11 SW3 – Latest Oracle RDBMS RAC Enterprise Edition CPU Licenses

Note:

- Oracle RDBMS/ MS-SQL Licenses should be supplied based on the hardware platform offered by the bidder.

Section E

E.1 Bidding procedure - Separate bid for each schedule:

E.1. Offers should be made in three parts namely, “Pre-qualification bid”, “Technical bid” and “Financial bid” and in the format given in bid document. Each offer should be placed separately.

- 1.) EMD details should be given in the “Pre-qualification bid”.
- 2.) Tenders will be accepted only from those who have paid the tender document fee.
- 4.) All correspondence should be with APTS contact person.
- 5.) A complete set of bidding documents may be purchased by interested bidders from the APTS contact person upon payment of the bid document price which is non-refundable. Payment of bid document price should be by demand draft / cashier's cheque or certified cheque drawn in favour of "The Managing Director, Andhra Pradesh Technology Services Ltd." and payable at Hyderabad (India).

E.2. Pre-qualification bid:

It shall include the following information about the firm and/or its proposal.

1. General information on the bidder's company in Form P-1
2. Turn over details in relevant field in Form P-2A.
3. Turn over details of the product (Brand) offered in Form P-2B.
4. List of major customers in support of turnover in Form P-3
6. Details of service centers in AP in Form P-4
7. Certificates like ISO, Microsoft etc. in Form P-5 (Bidder's format)
8. Manufacturer's authorization to participate in bidding process apart from such other documents like authorization certificate for dealing in the products for which bid is submitted.(However this will not apply to Manufacturers) in Form P-6 (Bidder's format)

E.3. Technical Bid:

1. Deviation(s) to technical specification, if any in Form T-1
2. Check list in Form T-2
3. Detailed technical documentation, reference to various industry standards to which the products/ services included in vendor's offer conform, and literature concerning the proposed solution in Form T-3 (Bidder's format)
4. Other information, if any required in the bid document in Form T-4 (Bidder's format)
5. AMC% for hardware for 4th year and 5th year to be quoted
6. AMC for software for 2nd, 3rd, 4th and 5th year to be quoted

E.4. Financial bid:

The financial bid should provide cost calculations corresponding to unit price of each item of the schedule in Form F-1.

E.5. Pre-bid Meeting:

All those bidders who had purchased bid document can participate in the meeting to seek clarifications on the bid, if any.